

Image

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

# 2818

Applicant: Cheng-Yi Liu et al.

Title: THINNED DIE INTEGRATED CIRCUIT PACKAGE

Docket No.: 884.793US1

Filed: January 7, 2002

Examiner: Mai-Huong Tran

Customer No.: 21186



Serial No.: 10/036389

Due Date: N/A

Group Art Unit: 2818

Confirmation No.: 3651

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Amendment to Correct Inventorship Pursuant to 37 CFR 1.48(a) (1 page)
- ☒ Consent of Assignee to Correction of Inventorship (1 pg.).
- ☒ Petition to Correct Inventorship Under 37 CFR 1.48(a) (8 pgs.).
- ☒ A check in the amount of \$130 to cover the Petitions Fee.
- ☒ Substitute Combined Declaration and Power of Attorney (12 pgs.).
- ☒ An Assignment of the invention to Intel Corporation (2 pgs.) and Recordation Form Cover Sheet.
- ☒ A check in the amount of \$40.00 to cover the Assignment Recording Fee.

If not provided for in a separate paper filed herewith, Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Customer Number 21186

By: Ann M. McCrackin  
Atty: Ann M. McCrackin  
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 14 day of January, 2004.

KACIA LEE  
Name

Kacia Lee  
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. Customer Number 21186  
(GENERAL)



10/036389

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Cheng-Yi Liu et al.	Examiner:	Mai-Huong Tran
Serial No.:	10/036389	Group Art Unit:	2818
Filed:	January 7, 2002	Docket:	884.793US1
Title:	THINNED DIE INTEGRATED CIRCUIT PACKAGE		
Assignee:	Intel Corporation	Customer No.:	21186

AMENDMENT TO CORRECT INVENTORSHIP PURSUANT TO 37 C.F.R. § 1.48(a)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.48(a), please correct the inventorship of the above-identified application from the inventorship of Cheng-Yi Liu, Johanna Swan and Steven Towle, to the inventorship of Cheng-Yi Liu, Johanna Swan, Steven Towle and Chuan Hu.

This amendment is accompanied by: (a) a Substitute Declaration and Power of Attorney signed by the joint inventors; (b) a Petition to Correct Inventorship Pursuant to 37 C.F.R. § 1.48(a) signed by the joint inventors; (c) the petition fee of \$130.00; and (d) the executed Consent of Assignee to Correction of Inventorship. Additionally enclosed is an Assignment to Intel Corporation executed by Chuan Hu, including cover sheet and \$40 fee for recordation.

Since the error arose without any deceptive intention on the part of the individual, who through error, was not named as an inventor, it is submitted that the entry of this amendment is appropriate and is respectfully requested.

Respectfully submitted,

CHENG-YI LIU ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
Attorneys for Intel Corporation  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 349-9592

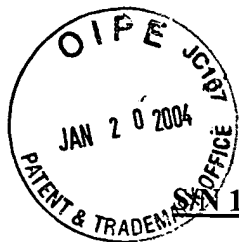
Date Jan. 13, 2004

By Ann M. McCrackin  
Ann M McCrackin  
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 14 day of January, 2004.

KACIA LEE  
Name

Kacia Lee  
Signature



10/036389

PATENTIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Cheng-Yi Liu et al.	Examiner:	Mai-Huong Tran
Serial No.:	10/036389	Group Art Unit:	2818
Filed:	January 7, 2002	Docket:	884.793US1
Title:	THINNED DIE INTEGRATED CIRCUIT PACKAGE		
Assignee:	Intel Corporation	Customer No.:	21186

CONSENT OF ASSIGNEE TO CORRECTION OF INVENTORSHIP

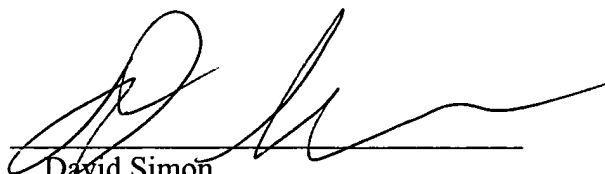
Commissioner for Patents  
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Alexandria, VA 22313-1450

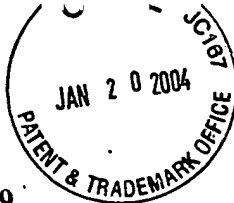
Intel Corporation, 2200 Mission College Blvd., Santa Clara, CA 95052, being the owner of the above-identified application, as evidenced by the Assignment recorded with the U.S. Patent Office on March 28, 2002 at Reel 012455, Frames 0385-0387, hereby consents to the change of inventorship in the above-identified application from the inventorship of Cheng-Yi Liu, Johanna Swan and Steven Towle, to the inventorship of Cheng-Yi Liu, Johanna Swan, Steven Towle and Chuan Hu.

I declare that I am an Official of the Assignee who is empowered to authorize this consent.

Date: August 28, 2003

By:

  
David Simon  
Chief Patent Counsel



**S/N 10/036389**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Cheng-Yi Liu et al.	Examiner:	Mai-Huong Tran
Serial No.:	10/036389	Group Art Unit:	2818
Filed:	January 7, 2002	Docket:	884.793US1
Title:	THINNED DIE INTEGRATED CIRCUIT PACKAGE		
Assignee:	Intel Corporation	Customer No.:	21186

**PETITION TO CORRECT INVENTORSHIP UNDER 37 C.F.R. 1.48(a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We, Cheng-Yi Liu, Johanna Swan, Anna George (Legal Representative for inventor Steven Towle, deceased) and Chuan Hu, make this petition pursuant to 37 C.F.R. §1.48(a), to correct the inventorship of the invention claimed in the above-identified patent application, U.S. Patent Application Serial No. 10/036389, filed January 7, 2002.

When the present application was filed, Cheng-Yi Liu, Johanna Swan and Steven Towle were the named inventors. However, after the present application was filed, it was determined that Chuan Hu was also a co-inventor of the subject matter claimed at the time the present application was filed. Petitioners hereby request that Chuan Hu be added as an inventor of the above-identified application.

Furthermore, Cheng-Yi Liu, Johanna Swan, Anna George (for Steven Towle) and Chuan Hu hereby state that this error in inventorship, as set forth in error in the executed 37 C.F.R. 1.63 declaration filed on January 7, 2002 in the above-identified application, arose without deceptive intent on our part.

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130.00 DP

Therefore, correction of the inventorship of the present application is appropriate under 37 C.F.R. 1.48(a), and is respectfully requested.

The Examiner is hereby authorized to charge **Deposit Account No. 19-0743** for the fee of \$130.00 as required under 37 C.F.R. 1.17(i).

Date 9/26-2003

  
Cheng-Yi Liu

Date \_\_\_\_\_

Johanna Swan

Date \_\_\_\_\_

Anna George (for Steven Towle)

Date \_\_\_\_\_

Chuan Hu

**S/N 10/036389****PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Cheng-Yi Liu et al.	Examiner:	Mai-Huong Tran
Serial No.:	10/036389	Group Art Unit:	2818
Filed:	January 7, 2002	Docket:	884.793US1
Title:	THINNED DIE INTEGRATED CIRCUIT PACKAGE		
Assignee:	Intel Corporation	Customer No.:	21186

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**PETITION TO CORRECT INVENTORSHIP UNDER 37 C.F.R. 1.48(a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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## PETITION UNDER 37 C.F.R. 1.48(a)

Serial Number: 10/036389

Filing Date: January 7, 2002

Title: THINNED DIE INTEGRATED CIRCUIT PACKAGE

Assignee: Intel Corporation

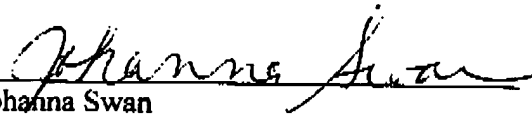
Page 2  
Dkt: 884.7931/S1

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The Examiner is hereby authorized to charge Deposit Account No. 19-0743 for the fee of \$130.00 as required under 37 C.F.R. 1.17(i).

Date \_\_\_\_\_

Cheng-Yi Liu

Date Sept. 05, 2003  
Johanna Swan

Date \_\_\_\_\_

Anna George (for Steven Towle)

Date \_\_\_\_\_

Chuan Hu



**S/N 10/036389**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Cheng-Yi Liu et al.	Examiner:	Mai-Huong Tran
Serial No.:	10/036389	Group Art Unit:	2818
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P.O. Box 1450  
Alexandria, VA 22313-1450

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Date \_\_\_\_\_

\_\_\_\_\_  
Cheng-Yi Liu

Date \_\_\_\_\_

\_\_\_\_\_  
Johanna Swan

Date 10/2/03 \_\_\_\_\_

  
\_\_\_\_\_  
Anna George (for Steven Towle)

Date \_\_\_\_\_

\_\_\_\_\_  
Chuan Hu



**S/N 10/036389**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Cheng-Yi Liu et al.	Examiner:	Mai-Huong Tran
Serial No.:	10/036389	Group Art Unit:	2818
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**PETITION TO CORRECT INVENTORSHIP UNDER 37 C.F.R. 1.48(a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Serial Number: 10/036389

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Assignee: Intel Corporation

Page 2

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Date \_\_\_\_\_

\_\_\_\_\_  
Cheng-Yi Liu

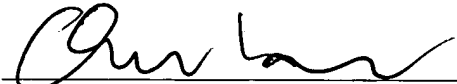
Date \_\_\_\_\_

\_\_\_\_\_  
Johanna Swan

Date \_\_\_\_\_

\_\_\_\_\_  
Anna George (for Steven Towle)

Date 08/26/2023

  
\_\_\_\_\_  
Chuan Hu



SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

**United States Patent Application**  
SUBSTITUTE COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **THINNED DIE INTEGRATED CIRCUIT PACKAGE.**

The specification of which was filed on January 7, 2002 as application serial no. 10/036389, and was amended on April 21, 2003, July 15, 2003, and October 22, 2003.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(e).

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

**No such claim for priority is being made at this time.**

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

**No such claim for priority is being made at this time.**

I hereby claim the benefit under 35 U.S.C. § 120 or 365(c) of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**No such claim for priority is being made at this time.**

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Aldous, Alan	Reg. No. 31,905	Huter, Jeffrey B.	Reg. No. 41,086	Parker, Lanny	Reg. No. 44,281
Anglin, J. M.	Reg. No. 24,916	Jackson Huebsch, Katharine A.	Reg. No. 47,670	Parker, J. K.	Reg. No. 33,024
Arora, Suneel	Reg. No. 42,267	Jurkovich, Patti J.	Reg. No. 44,813	Peacock, Gregg A.	Reg. No. 45,001
Bacon, Shireen	Reg. No. 40,494	Kacvinsky, John	Reg. No. 40,040	Perdok, Monique M.	Reg. No. 42,989
Beekman, Marvin L.	Reg. No. 38,377	Kalis, Janal M.	Reg. No. 37,650	Peret, Andrew R.	Reg. No. 41,246
Bianchi, Timothy E.	Reg. No. 39,610	Kalson, Seth	Reg. No. 40,670	Peterson, David C.	Reg. No. 47,857
Billion, Richard E.	Reg. No. 32,836	Klima-Silberg, Catherine I.	Reg. No. 40,052	Prout, William F.	Reg. No. 33,995
Black, David W.	Reg. No. 42,331	Kluth, Daniel J.	Reg. No. 32,146	Reif, Kevin A.	Reg. No. 36,381
Brake, Edward	Reg. No. 37,784	Lacy, Rodney L.	Reg. No. 41,136	Schumm, Sherry W.	Reg. No. 39,422
Brennan, Thomas F.	Reg. No. 35,075	Lam, Peter	Reg. No. 44,855	Schwegman, Micheal L.	Reg. No. 25,816
Burge, Ben	Reg. No. 42,372	Lemaire, Charles A.	Reg. No. 36,198	Seddon, Ken	Reg. No. 43,105
Chadwick, Robin A.	Reg. No. 36,477	Lin, Issac	Reg. No. 50,672	Seeley, Mark	Reg. No. 32,299
Chen, George	Reg. No. 50,807	Lundberg, Steven W.	Reg. No. 30,568	Simon, David	Reg. No. 32,756
Choi, Glen	Reg. No. 43,546	Lundmark, David C.	Reg. No. 42,815	Skabrat, Steve	Reg. No. 36,279
Clark, Barbara J.	Reg. No. 38,107	Maki, Peter C.	Reg. No. 42,832	Skaist, Howard A.	Reg. No. 36,008
Clise, Timothy B.	Reg. No. 40,957	Malen, Peter L.	Reg. No. 44,894	Speier, Gary J.	Reg. No. 45,458
Cochran, David R.	Reg. No. 46,632	Martinez, Anthony	Reg. No. 44,223	Steffey, Charles E.	Reg. No. 25,179
Cool, Kenneth J.	Reg. No. 40,570	Mates, Robert E.	Reg. No. 35,271	Steiner, Paul E.	Reg. No. 41,326
Dahl, John M.	Reg. No. 44,639	McCrackin, Ann M.	Reg. No. 42,858	Stordal, Leif T.	Reg. No. 46,251
DeLizio, Andrew	Reg. No. 52,806	McTavish, Hugh E.	Reg. No. 48,341	Tong, Viet V.	Reg. No. 45,416
Drake, Eduardo E.	Reg. No. 40,594	Mehrle, Joseph P.	Reg. No. 45,535	Tran, David	Reg. No. 50,804
Embretson, Janet E.	Reg. No. 39,665	Mennemeier, Larry	Reg. No. 51,003	Viksnins, Ann S.	Reg. No. 37,748
Faatz, Cindy	Reg. No. 39,973	Metzger, Erik	Reg. No. 53,320	Wells, Calvin	Reg. No. 43,256
Forrest, Bradley A.	Reg. No. 30,837	Muller, Mark V.	Reg. No. 37,509	Willardson, Michael	Reg. No. 50,856
Gagne, Christopher	Reg. No. 36,142	Nagy, Paul	Reg. No. 37,896	Winkle, Robert G.	Reg. No. 37,474
Gorrie, Gregory J.	Reg. No. 36,530	Nama, Prakash	Reg. No. 44,255	Woessner, Warren D.	Reg. No. 30,440
Greaves, John N.	Reg. No. 40,362	Nelson, A. James	Reg. No. 28,650	Wong, Sharon	Reg. No. 37,760
Green, Sharmini N.	Reg. No. 41,410	Nicholls, Dennis A.	Reg. No. 42,036	Yates, Steven D.	Reg. No. 42,242
Greenwald, Bradley A.	Reg. No. 34,341	Nielsen, Walter W.	Reg. No. 25,539	Young, Charles K.	Reg. No. 39,435
Harris, Robert J.	Reg. No. 37,346	Padys, Danny J.	Reg. No. 35,635		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary.

Please direct all correspondence in this case to **Schwegman, Lundberg, Woessner & Kluth, P.A.** at the address indicated below:

**P.O. Box 2938, Minneapolis, MN 55402**  
**Telephone No. (612)373-6900**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : **Cheng-Yi Liu**  
Citizenship: **United States of America** Residence: **Jhong-Li City, TAIWAN**  
Post Office Address: **Department of Chemical and Materials Engineering**  
**National Central University**  
**Jhong-Li City, TAIWAN**

Signature: \_\_\_\_\_

Cheng-Yi Liu

Date: \_\_\_\_\_

11-10-2003

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

Full Name of joint inventor number 2 : **Johanna Swan**  
Citizenship: **United States of America**  
Post Office Address: **19815 N. 84th Way**  
**Scottsdale, AZ 85255**

Residence: **Scottsdale, AZ**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Johanna Swan

Full Name of joint inventor number 3 : **Anna George, Legal Representative for inventor Steven Towle (deceased)**  
Citizenship: **United States of America**  
Post Office Address: **301 W. Desert Flower Ln.**  
**Phoenix, AZ 85045**

Residence: **Phoenix, AZ**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Anna George (for Steven Towle)

Full Name of joint inventor number 4 : **Chuan Hu**  
Citizenship: **China**  
Post Office Address: **1565 N. Ellis Street**  
**Chandler, AZ 85224**

Residence: **Chandler, AZ**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Chuan Hu

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

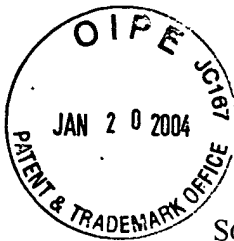
- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



Attorney Docket No.884.793US1

SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

## United States Patent Application

SUBSTITUTE COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **THINNED DIE INTEGRATED CIRCUIT PACKAGE.**

The specification of which was filed on January 7, 2002 as application serial no. 10/036389, and was amended on April 21, 2003, July 15, 2003, and October 22, 2003.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(e).

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

**No such claim for priority is being made at this time.**

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

**No such claim for priority is being made at this time.**

I hereby claim the benefit under 35 U.S.C. § 120 or 365(c) of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**No such claim for priority is being made at this time.**

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:



Aldous, Alan	Reg. No. 31,905	Huter, Jeffrey B.	Reg. No. 41,086	Parker, Lanny	Reg. No. 44,281
Anglin, J. M.	Reg. No. 24,916	Jackson Huebsch, Katharine A.	Reg. No. 47,670	Parker, J. K.	Reg. No. 33,024
Arora, Suneel	Reg. No. 42,267	Jurkovich, Patti J.	Reg. No. 44,813	Peacock, Gregg A.	Reg. No. 45,001
Bacon, Shireen	Reg. No. 40,494	Kacvinsky, John	Reg. No. 40,040	Perdok, Monique M.	Reg. No. 42,989
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Billion, Richard E.	Reg. No. 32,836	Klima-Silberg, Catherine I.	Reg. No. 40,052	Prout, William F.	Reg. No. 33,995
Black, David W.	Reg. No. 42,331	Kluth, Daniel J.	Reg. No. 32,146	Reif, Kevin A.	Reg. No. 36,381
Brake, Edward	Reg. No. 37,784	Lacy, Rodney L.	Reg. No. 41,136	Schumm, Sherry W.	Reg. No. 39,422
Brennan, Thomas F.	Reg. No. 35,075	Lam, Peter	Reg. No. 44,855	Schwegman, Micheal L.	Reg. No. 25,816
Burge, Ben	Reg. No. 42,372	Lemaire, Charles A.	Reg. No. 36,198	Seddon, Ken	Reg. No. 43,105
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Chen, George	Reg. No. 50,807	Lundberg, Steven W.	Reg. No. 30,568	Simon, David	Reg. No. 32,756
Choi, Glen	Reg. No. 43,546	Lundmark, David C.	Reg. No. 42,815	Skabrat, Steve	Reg. No. 36,279
Clark, Barbara J.	Reg. No. 38,107	Maki, Peter C.	Reg. No. 42,832	Skaist, Howard A.	Reg. No. 36,008
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Cochran, David R.	Reg. No. 46,632	Martinez, Anthony	Reg. No. 44,223	Steffey, Charles E.	Reg. No. 25,179
Cool, Kenneth J.	Reg. No. 40,570	Mates, Robert E.	Reg. No. 35,271	Steiner, Paul E.	Reg. No. 41,326
Dahl, John M.	Reg. No. 44,639	McCrackin, Ann M.	Reg. No. 42,858	Stordal, Leif T.	Reg. No. 46,251
DeLizio, Andrew	Reg. No. 52,806	McTavish, Hugh E.	Reg. No. 48,341	Tong, Viet V.	Reg. No. 45,416
Drake, Eduardo E.	Reg. No. 40,594	Mehrle, Joseph P.	Reg. No. 45,535	Tran, David	Reg. No. 50,804
Embretson, Janet E.	Reg. No. 39,665	Mennemeier, Larry	Reg. No. 51,003	Viksniins, Ann S.	Reg. No. 37,748
Faatz, Cindy	Reg. No. 39,973	Metzger, Erik	Reg. No. 53,320	Wells, Calvin	Reg. No. 43,256
Forrest, Bradley A.	Reg. No. 30,837	Muller, Mark V.	Reg. No. 37,509	Willardson, Michael	Reg. No. 50,856
Gagne, Christopher	Reg. No. 36,142	Nagy, Paul	Reg. No. 37,896	Winkle, Robert G.	Reg. No. 37,474
Gorrie, Gregory J.	Reg. No. 36,530	Nama, Prakash	Reg. No. 44,255	Woessner, Warren D.	Reg. No. 30,440
Greaves, John N.	Reg. No. 40,362	Nelson, A. James	Reg. No. 28,650	Wong, Sharon	Reg. No. 37,760
Green, Sharmini N.	Reg. No. 41,410	Nicholls, Dennis A.	Reg. No. 42,036	Yates, Steven D.	Reg. No. 42,242
Greenwald, Bradley A.	Reg. No. 34,341	Nielsen, Walter W.	Reg. No. 25,539	Young, Charles K.	Reg. No. 39,435
Harris, Robert J.	Reg. No. 37,346	Padys, Danny J.	Reg. No. 35,635		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary. Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402  
Telephone No. (612)373-6900

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : **Cheng-Yi Liu**  
Citizenship: **United States of America** Residence: **Jhong-Li City, TAIWAN**  
Post Office Address: **Department of Chemical and Materials Engineering**  
**National Central University**  
**Jhong-Li City, TAIWAN**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Cheng-Yi Liu

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

Full Name of joint inventor number 2 : Johanna Swan  
Citizenship: United States of America Residence: Scottsdale, AZ  
Post Office Address: 19815 N. 84th Way  
Scottsdale, AZ 85255

Signature: Johanna M. Swan Date: 11/05/2003  
Johanna Swan

Full Name of joint inventor number 3 : Anna George, Legal Representative for inventor Steven Towle (deceased)  
Citizenship: United States of America Residence: Phoenix, AZ  
Post Office Address: 301 W. Desert Flower Ln.  
Phoenix, AZ 85045

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Anna George (for Steven Towle)

Full Name of joint inventor number 4 : Chuan Hu  
Citizenship: China Residence: Chandler, AZ  
Post Office Address: 1565 N. Ellis Street  
Chandler, AZ 85224

Signature: Chuan Hu Date: 11/05/03  
Chuan Hu

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
  - (i) Opposing an argument of unpatentability relied on by the Office, or
  - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

**United States Patent Application**  
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Gagne, Christopher	Reg. No. 36,142	Nagy, Paul	Reg. No. 37,896	Winkle, Robert G.	Reg. No. 37,474
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Please direct all correspondence in this case to **Schwegman, Lundberg, Woessner & Kluth, P.A.** at the address indicated below:

**P.O. Box 2938, Minneapolis, MN 55402**  
**Telephone No. (612)373-6900**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor number 1 : **Cheng-Yi Liu**  
Citizenship: **United States of America** Residence: **Jhong-Li City, TAIWAN**  
Post Office Address: **Department of Chemical and Materials Engineering**  
**National Central University**  
**Jhong-Li City, TAIWAN**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Cheng-Yi Liu

☒ Additional inventors are being named on separately numbered sheets, attached hereto.

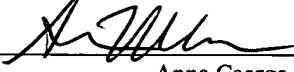
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Full Name of joint inventor number 2 : **Johanna Swan**  
Citizenship: **United States of America** Residence: **Scottsdale, AZ**  
Post Office Address: **19815 N. 84th Way**  
**Scottsdale, AZ 85255**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Johanna Swan

---

Full Name of joint inventor number 3 : **Anna George, Legal Representative for inventor Steven Towle (deceased)**  
Citizenship: **United States of America** Residence: **Phoenix, AZ**  
Post Office Address: **301 W. Desert Flower Ln.**  
**Phoenix, AZ 85045**

Signature:  \_\_\_\_\_ Date: 11/16/03  
Anna George (for Steven Towle)

---

Full Name of joint inventor number 4 : **Chuan Hu**  
Citizenship: **China** Residence: **Chandler, AZ**  
Post Office Address: **1565 N. Ellis Street**  
**Chandler, AZ 85224**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Chuan Hu

---

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- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

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